

Expedition 33/ Soyuz 31 (TMA-05M) Landing Crew



**Suni
Williams**

Expedition 33
Commander



**Yuri
Malenchenko**

Exp. 33 Ft. Engineer
Soyuz Commander



**Akihiko
Hoshide**

Expedition 33
Flight Engineer

1
00:00:01,100 --> 00:00:02,835
This is Mission Control Houston.

2
00:00:02,835 --> 00:00:06,272
Half of the members of
the Expedition 33 crew are

3
00:00:06,272 --> 00:00:07,973
in their final week on orbit.

4
00:00:07,973 --> 00:00:10,376
They've got a lot of their
time this week devoted

5
00:00:10,376 --> 00:00:13,846
to preparations for their
departure and landing.

6
00:00:13,846 --> 00:00:15,548
Station Commander Suni Williams,

7
00:00:15,548 --> 00:00:17,249
Flight Engineers
Yuri Malenchenko

8
00:00:17,249 --> 00:00:21,320
and Aki Hoshide will
depart for Earth on Sunday.

9
00:00:21,320 --> 00:00:23,355
Yesterday Williams
and Malenchenko

10
00:00:23,355 --> 00:00:27,860
who is the Soyuz commander
conducted a Soyuz descent drill

11
00:00:27,860 --> 00:00:31,530
while Hoshide performed

ultrasound scans of his leg

12

00:00:31,530 --> 00:00:35,167

and thigh for the investigation known as Sprint,

13

00:00:35,167 --> 00:00:38,037

which is looking into the value of high density

14

00:00:38,037 --> 00:00:42,608

and low-volume exercise as a way to minimize an astronaut's bone

15

00:00:42,608 --> 00:00:44,443

or muscle loss as well

16

00:00:44,443 --> 00:00:47,213

as improve their cardiovascular function while they're

17

00:00:47,213 --> 00:00:49,648

in the microgravity environment.

18

00:00:49,648 --> 00:00:51,050

All three of them have time

19

00:00:51,050 --> 00:00:55,087

on their schedule each day this week for departure preparation

20

00:00:55,087 --> 00:00:58,190

to pack up their belongings and get gear stowed

21

00:00:58,190 --> 00:01:01,494

in their Soyuz spacecraft for the ride to Earth.

22

00:01:01,494 --> 00:01:04,930
After some of that prep time
this morning Williams performed

23
00:01:04,930 --> 00:01:07,166
maintenance and maintenance
inspection

24
00:01:07,166 --> 00:01:11,303
on the TVIS treadmill while
flight engineer Oleg Novitskiy

25
00:01:11,303 --> 00:01:15,107
exercised on that
apparatus at the same time

26
00:01:15,107 --> 00:01:18,210
as Evgeny Tarelkin used
the Russian ergometer,

27
00:01:18,210 --> 00:01:22,648
all of which are more exercise
tools that the crew members use

28
00:01:22,648 --> 00:01:25,651
to keep fit while
they're in space.

29
00:01:25,651 --> 00:01:30,656
Kevin Ford started off the day
wrapping up the stowage of tools

30
00:01:30,656 --> 00:01:32,725
that were used by
Williams and Hoshide.

31
00:01:32,725 --> 00:01:36,262
during their spacewalk earlier
this month while Hoshide

32

00:01:36,262 --> 00:01:39,465

prepared hardware for
the upcoming installation

33

00:01:39,465 --> 00:01:43,936

of new computer network wireless
access point in the station.

34

00:01:43,936 --> 00:01:46,739

He also did his final data takes

35

00:01:46,739 --> 00:01:49,842

with the Integrated
Cardiovascular experiment.

36

00:01:49,842 --> 00:01:53,646

That experiment is trying
to quantify cardiac atrophy

37

00:01:53,646 --> 00:01:58,017

that is suffered by crew members
during long-duration flight.

38

00:01:58,017 --> 00:02:01,487

Ford spent his afternoon
doing maintenance on a valve

39

00:02:01,487 --> 00:02:03,189

in the water recovery system.

40

00:02:03,189 --> 00:02:06,258

For Malenchenko much of
the afternoon was spent

41

00:02:06,258 --> 00:02:09,261

on Russian systems
maintenance while Novitskiy

42

00:02:09,261 --> 00:02:11,697

and Tarelkin worked

on Russian experiments

43

00:02:11,697 --> 00:02:16,001

in technology studies
and cosmic biotechnology.

44

00:02:16,001 --> 00:02:18,037

The three crew members
coming home,

45

00:02:18,037 --> 00:02:22,541

the crew of the 31 Soyuz
spacecraft, returning more

46

00:02:22,541 --> 00:02:26,478

of their attention to packing up
and getting ready to come home.

47

00:02:26,478 --> 00:02:29,448

The change of command ceremony
for the crew is scheduled

48

00:02:29,448 --> 00:02:33,786

for this Saturday afternoon
and Expedition 34 will begin

49

00:02:33,786 --> 00:02:36,755

on Sunday night when
Williams, Malenchenko